

*mine p.*

September 19, 1988

TO: Minerals File  
FROM: Holland Shepherd *HNS*  
RE: Site Visit, Goldstrike Mine, Tenneco Minerals, M/053/005,  
Washington County, Utah

Wayne Hedberg, myself and Scott Johnson met on September 16, 1988 at the Goldstrike site with Mr. Ken Clutzdahl of Tenneco Minerals. Mr. Clutzdahl is the new manager of the Goldstrike site, has taken over from Mr. Mike Stairwalt of Tenneco who resigned.

The Lost Dutchman Construction Company has already initiated construction at the site and many acres have already been disturbed through regrading and dozing. The operator has established sediment controls on several small drainages which feed into the Lost Beaver Creek. The sediment controls consist of three to four foot high silt fences. The silt fences have been well constructed, are sturdy and have been keyed in properly at the bottom to prevent short circuiting and sediment loss.

The operator has been attempting to salvage topsoil as construction proceeds. Several areas on site are being used for topsoil storage. These topsoil storage areas are only temporary at this time and permanent topsoil storage areas will be constructed eventually this fall. I reminded Mr. Clutzdahl that the construction of permanent topsoil storage piles are part of the mining reclamation plan and that it essential to construct these storage piles as soon as possible. I also explained to Mr. Clutzdahl that it is essential for final reclamation that as much topsoil material as possible, be collected from the site as construction efforts proceed.

The operator has disturbed quite a large area of land already, I'd estimate that at least 60 acres have been disturbed and denuded of vegetative material. The operator has not yet started to mine the three to four pits that are proposed in the mine plan. Construction is focused, at this time, on the development of the facilities areas, heap leach pads, leach ponds and roads. The area was impacted by a large rainstorm event earlier this week, wherein about an inch and a quarter of rain fell in an hours worth of time. According to Mr. Clutzdahl and from our own observations, the site was not impacted adversely by the rainstorm event.



We noticed, driving into the site, on a stretch of road approximately 8 to 10 miles in length, which winds through a rather narrow canyon as it approaches the western end of the Goldstrike site, that the road has been poorly constructed for large flows of water. The road is owned and maintained by the County, according to Mr. Clutzdahl. The Tenneco operator has recently upgraded the road. At several places along the road it winds back and forth across the river bed. There are no culverts, and there is no riprapping at points where the road crosses the river bed. It is predicted that in the event of a large rainstorm these areas on the road which cross the river bed, without protection, will be washed out. Since this is a County road, the Division has no authority regarding construction or maintenance. Any problems that develop with this road will become the responsibility of the county or the mine operator.

Mr. Clutzdahl explained to us that the operator has had problems developing water on the site. The water would be used for the gold processing procedure. Quite a bit of water is needed for this procedure. Mr. Clutzdahl indicated that several wells have been drilled on the site with very little success in generating the volume of water needed. He also indicated that an alternative may be to pipe in the water from a nearby ranch some 10 to 15 miles off site.

Mr. Clutzdahl indicated to us that the extent of the gold ore body is larger than first anticipated and that the mining and reclamation plan may have to be amended or upgraded in the future to take this into account. The Padre Pit is one that Mr. Clutzdahl indicated would probably be extended in the future vs. what was indicated in the plan earlier.

We spoke to Mr. Clutzdahl about the permitting status with the Department of Health, Bureau of Water Pollution Control. Mr. Clutzdahl explained to us that he would be meeting with them on Friday, September 16th of that week. He indicated to us that he was not very optimistic about the outcome of that particular meeting but that meeting would be an important one in determining which way Tenneco will go regarding the heap leach facilities. Mr. Clutzdahl's main complaint about the Bureau of Water Pollution Control was that their requirements were not site specific. In other words, the Bureau of Water Pollution Control is requiring from Tenneco the same standards they require from an operator in a more populated, sensitive area.



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Upon leaving the site we indicated to Mr. Clutzdahl that we had no serious concerns about anything at the site at that time. We did indicate that we would like him to take into account the need for the maintenance of sediment controls because of the steep terrain, and the need to salvage and store topsoil materials.

jb  
cc: Lowell Braxton  
Wayne Hedberg  
Scott Johnson  
4/29-31